



Overnight Mail
Return Receipt Requested

June 5, 2013

Mr. John Settle, Prep Coordinator
DEQ – Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, Virginia 23462

RE: Dominion – Chesapeake Energy Center – Oil Spill / Unauthorized Discharge (NRC IR# 1048974)

Dear Mr. Settle:

The information below is in follow up to a reported unauthorized discharge from the Chesapeake Energy Center facility, which occurred on June 1, 2013:

- A. **Responsible Party Name:** Dominion Virginia Power
Address: 2701 Vepco Street, Chesapeake, Virginia 23323
Telephone: (757) 485-6741
- B. **Incident Response (IR) Number:** National Response Center (NRC # IR 1048974)
- C. **Spill Information**
1. **Spill date & time:** Approximately 15:45 hrs on June 1, 2013
 2. **Type of product spilled:** Believed to be old / partially emulsified No. 2 Fuel Oil
 3. **Cause of spill:**

CAUSE: Unit 1 river water cooling system underground pipe failure that resulted in severe flooding of station's Boiler building.

BACKGROUND: Unit 1 river water cooling system was supplying untreated river water to Unit 1 at a flow rate of 61,000 gallons a minute. All four of the station's generating units were 'On-Line' and generating electricity when the event occurred.

OVERVIEW: The flooding of the station's Boiler building resulted in two individual discharge incidents:

The first incident* occurred during the initial stage of flooding when the Units' 1-3 lift station (operating normal) could not keep up with the flood flow rate and overflowed releasing an unknown volume of untreated river water into VPDES storm water Outfall 021.

The second incident** occurred when the flood water level inside the Boiler building got high enough to impact high voltage energized equipment. At this time the building's Emergency Discharge Valve was opened to ensure personnel safety. Unknown to station personnel, there was old oil trapped in this discharge system that consequently was discharged directly to the Elizabeth River.

INCIDENT DETAILS

June 1, ~1300: Flooding discovered outside of Boiler building

*June 1, ~1345: Units 1-3 Lift Station overflows into VPDES Outfall 021

June 1, ~1426: Unit 2 removed from service & river cooling water pumps shut down

June 1, ~1545: Boiler building's Emergency Discharge Valve opened

June 1, ~1552: Unit 1 removed from service & river cooling water pumps shut down

June 1, ~1600: Station's Oil Spill Response contractor (IMS) requested to respond

**June 1, ~1605: Observed oil sheen in discharge area of the Emergency Discharge Valve pipe

June 1, ~1605: Station's Oil Spill Response team engaged to deploy containment boom

June 1, ~1730: IMS-Hepaco oil spill response team on site

June 1, ~1735: Emergency Discharge Valve closed & discharge to 021 ended

June 1, ~1900: 2300 feet of retention boom had been deployed

June 1, ~2150: 320 feet of absorbent boom deployed and free product removed by vacuum truck

4. **Specific location of spill:** Out in front of the intake structures on the Elizabeth River, Station address: 2701 Vepco Street, Chesapeake, Virginia 23323
5. **Volume of product spilled:** Approximately 50 gallons of old No. 2 Fuel Oil
6. **Volume of product reaching state waters or storm drain systems:** Approximately 50 gallons of old No. 2 Fuel Oil
7. **Name of waterway that spill discharged to:** Elizabeth River
8. **Description of clean up measures:** Both the station's oil spill response team and the station's oil spill response contractor responded to the spill.
 - June 1, ~1605: Observed oil sheen on river
 - June 1, ~1605: Station's Oil Spill Response team engaged to deploy containment boom
 - June 1, ~1600: Station's Oil Spill Response contractor (IMS) requested to respond
 - June 1, ~1730: IMS-Hepaco oil spill response team on site. Equipment included boat, containment boom, vacuum truck & absorbent boom and pads.
 - June 1, ~1900: 2300 feet of retention boom had been deployed
 - June 1, ~2150: 320 feet of absorbent boom deployed and free product removed by vacuum.
 - June 2: 320 feet of additional absorbent boom deployed & 100 feet of spent boom removed. 200 square feet of absorbent pad deployed.
 - June 3: 200 square feet of absorbent pad deployed.
 - June 4: Spent absorbent boom removed. 480 feet of new boom deployed.
9. **Agencies notified:**
 - June 1, ~1408: DEQ's Regional PREP Coordinator notified of discharge to 021
 - June 1, ~1415: VDEM notified of discharge to 021
 - June 1, ~1617: NRC notified of oil spill (from Emergency Discharge Valve)
 - June 1, ~1624: Coast Guard notified of oil spill
 - June 1, ~1949: VDEM notified again to update incident information & provide NRC Incident Report #

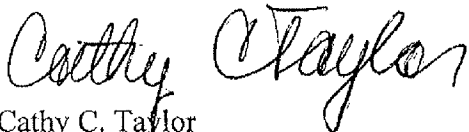
10. Corrective action taken:

- a. Sign posted at Emergency Discharge Valve stating: Do not open valve unless all reasonable efforts have been made to deploy discharge boom.
- b. Unit 1 ruptured pipe section, which supplied ash sluice water, has been permanently removed from service.
- c. As a preventive measure, inspection of the river cooling water systems supplying Units 3 & 4 will be conducted during the next unit planned outage.
- d. Established routine inspection of the Emergency Discharge Valve pit to detect and remove free oil, if it accumulates.

If you have any questions or comments please contact Rick Woolard, of Dominion's Electric Environmental Services, at (804) 273-2991 and/or CEC's Environmental Contact, Bruce Sanders (Chemist III) at (757) 485-6731.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Sincerely,



Cathy C. Taylor
Director, Electric Environmental Support

cc: Ms. Melinda Woodruff
Virginia DEQ - Tidewater Regional Office
5636 Southern Boulevard
Virginia Beach, VA 23462

NRC

Local Fire Marshall